SECTION 5

510(K) Summary CRYOcheck™ Clot APCR™

MAY 10 2008

This summary of 510(k) safety and effectiveness information is being submitted in accordance with the requirements of SMDA 1990 and 21 CFR 807.92.

The assigned 510(k) number is: KOGO284

Part A

 Submitter's name, address, telephone, contact person, and the date the summary was prepared

Submitter's Name: Precision BioLogic Inc.

Submitter's Address: 900 Windmill Road, Suite 100

Dartmouth, Nova Scotia B3B 1P7

Canada

Submitter's Telephone Number: 902-468-6422

Submitter's Contact Name: Stephen L. Duff – Director of New Business Development

Phone: 902-468-6422 ext. 224

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Email: sduff@precisionbiologic.com

Date of 510(k) Preparation: February 2, 2006

2. Name of the device, including the trade or proprietary name, the common or usual name and the classification name

Device Name & Classification: CRYO*check* Clot APCR

Common Name: Activated Protein C Resistance (APCR) Screening Assay

Classification Name: Hematology; Test, Time, Partial Thromboplastin

Regulatory Class II

3. Identification of the legally marketed device to which the submitter claims substantial equivalence

Predicate Device Name: GradiLeiden V

510(k) number: K992456 Regulation Number: 864.7925

Regulatory Class: II

Life Therapeutics Ltd.(formerly Gradipore Ltd.)

22 Rodborough Road Frenchs Forest, NSW 2086 Australia

4. Description of the device

Device Description:

CRYOcheck Clot APCR consists of:

- 5 x 2.0 mL Activator Reagent (APC-AR)
- 5 x 4.0 mL Russell's Viper Venom Reagent (APC-RV)

5. Statement of the intended use of the device

Device Intended Use:

<code>CRYO.check</code> Clot APCR is a clotting assay intended to screen for resistance to activated protein C in plasma from individuals with the factor V_{Leiden} mutation.

6. Summary of the technological characteristics of the new device in comparison to those of the predicate device

Comparison to Predicate Device:

Parameter	CRYO <i>check</i> Clot APCR	GradiLeiden V - (K992456)		
Intended Use	CRYO <i>check</i> Clot APCR is a clotting assay intended to screen for resistance to activated protein C in plasma from individuals with the factor V _{Leiden} mutation.	GradiLeiden V is a simple, functional test system intended for screening of resistance to activated protein C in plasma from individuals with the factor V_{Leiden} defect. Lyophilized		
Format	Frozen			
Volume	 5 x 2.0 mL Activator Reagent (APC-AR) 5 x 4.0 mL Russell's Viper Venom Reagent (APC-RV) 	 5 x 2.0 mL Activator Reagent 5 x 4.0 mL PR3V Reagent 		

Comments on Substantial Equivalence:

It is the opinion of Precision BioLogic Inc. that CRYO*check* Clot APCR is substantially equivalent to GradiLeiden V, manufactured by Life Therapeutics (formerly Gradipore Ltd. Australia), and currently marketed in the United States by Rainbow Scientific. This opinion is based on the following:

- Both products are clot-based assays.
- ullet Both products are intended to screen for resistance to activated protein C in citrated human plasma from individuals with the factor V_{Leiden} defect.
- Both methods rely on the activation of endogenous protein C.
- Both methods perform a dilute Russell's viper venom time (dRVVT) on the plasma with saline and with activator to obtain a ratio which is used for interpretation of a diagnosis.
- Both products can be automated in 2 stage clotting test systems with similar activation and acquisition times.
- Both cryocheck Clot APCR and GradiLeiden V tests can be used with the same patient groups.
- Both methods do not require the addition of factor V deficient plasma.

Part B

 Brief discussion of the non-clinical tests submitted, referenced, or relied on in the premarket notification submission for a determination of substantial equivalence

Non-clinical tests were performed in-house to determine precision, interferences, and stability. CRYO*check* Clot APCR showed comparable precision to that of the predicate, GradiLeiden V. Both devices demonstrated identical results when challenged with interfering substances and factor deficiencies. Storage stability is reflected in product labeling.

2. Brief discussion of the clinical tests submitted, referenced, or relied on in the premarket notification submission for a determination of substantial equivalence

Clinical tests were performed at Precision BioLogic and a US university hospital-based clinical coagulation laboratory. cryocheck Clot APCR and the predicate device exhibited identical sensitivity and specificity.

 Conclusions drawn from the non-clinical and clinical tests that demonstrate that the device is as safe, as effective, and as well or better than the legally marketed device identified in Part A (3)

CRYO*check* Clot APCR and GradiLeiden V have the same intended use and can be used with the same patient groups. Precision BioLogic considers CRYO check Clot APCR to be substantially equivalent to GradiLeiden V in terms of intended use, method comparison, and overall performance characteristics. CRYO check Clot APCR was compared to GradiLeiden V using 207 clinical samples from the target population for the assay. A correlation of R = 0.960 was obtained.







Food and Drug Administration 2098 Gaither Road Rockville MD 20850

Mr. Stephen L. Duff
Director of New Business Development
Precision BioLogic Inc.
900 Windmill Road, Suite 100
Dartmouth, Nova Scotia
Canada B3B 1P7

Re: k060284

Trade/Device Name: CryoCheck™ Clot APCR™

Regulation Number: 21 CFR § 864.7925

Regulation Name: Partial Thromboplastin Time Tests

Regulatory Class: II Product Code: GGW Dated: April 28, 2006 Received: May 2, 2006

Dear Mr. Duff:

We have reviewed your Section 510(k) premarket notification of intent to market the device referenced above and have determined the device is substantially equivalent (for the indications for use stated in the enclosure) to legally marketed predicate devices marketed in interstate commerce prior to May 28, 1976, the enactment date of the Medical Device Amendments, or to devices that have been reclassified in accordance with the provisions of the Federal Food, Drug, and Cosmetic Act (Act) that do not require approval of a premarket approval application (PMA). You may, therefore, market the device, subject to the general controls provisions of the Act. The general controls provisions of the Act include requirements for annual registration, listing of devices, good manufacturing practice, labeling, and prohibitions against misbranding and adulteration.

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If your device is classified (see above) into either class II (Special Controls) or class III (PMA), it may be subject to such additional controls. Existing major regulations affecting your device can be found in Title 21, Code of Federal Regulations (CFR), Parts 800 to 895. In addition, FDA may publish further announcements concerning your device in the <u>Federal Register</u>.

Please be advised that FDA's issuance of a substantial equivalence determination does not mean that FDA has made a determination that your device complies with other requirements of the Act or any Federal statutes and regulations administered by other Federal agencies. You must comply with all the Act's requirements, including, but not limited to: registration and listing (21 CFR Part 807); labeling (21 CFR Parts 801 and 809); and good manufacturing practice requirements as set forth in the quality systems (QS) regulation (21 CFR Part 820). This letter will allow you to begin marketing your device as described in your Section 510(k) premarket notification. The FDA finding of substantial equivalence of your device to a legally marketed predicate device results in a classification for your device and thus, permits your device to proceed to the market.

If you desire specific information about the application of labeling requirements to your device, or questions on the promotion and advertising of your device, please contact the Office of In Vitro Diagnostic Device Evaluation and Safety at (240) 276-0484. Also, please note the regulation entitled, "Misbranding by reference to premarket notification" (21CFR Part 807.97). You may obtain other general information on your responsibilities under the Act from the Division of Small Manufacturers, International and Consumer Assistance at its toll-free number (800) 638-2041 or (301) 443-6597 or at its Internet address http://www.fda.gov/cdrh/industry/support/index.html

Sincerely yours,

Robert L. Becker, Jr., MD, Ph.D

Director

Division of Immunology and Hematology

Office of In Vitro Diagnostic Device

Evaluation and Safety

Center for Devices and

Radiological Health

Enclosure

SECTION 4

Indications for Use

	510(k) Number:		ко 60284	
Device	vice Name:	CRYOcheck™ C	lot APCR™	
ndications for Use:				
CRYO <i>check</i> Clot APCR in citrated human plasm			een for resistance to activ V_{Leiden} mutation.	ated protein C
			÷.	
Prescription Use	✓	AND/OR	Over-The-Counter Use	
Part 21 CFR 801 Subpart			(21 CFR 807 Subpart C)	
PLEASE DO NOT WRI	LE BETOM İHI	S LINE-CONTIN	UE ON ANOTHER PAGE	IF NEEDED)
Concurre	ence of CDRH, Division	Office of In Vitro I	Diagnostic Devices (OIVD	
		of In Vitro Dia ion and Safety	ignostic Device	

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